

A PROFILE OF THE DEGRADATION OF DISLODGEABLE
FOLIAR RESIDUE AFTER SERIAL AZINPHOSMETHYL (GUTHION^R)
APPLICATIONS TO PEACHES; STANISLAUS COUNTY, 1985

By

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SUMMARY

Foliage from test plots in two treated peach orchards in Stanislaus County was sampled at pre-determined times following two serial applications of azinphosmethyl (Guthion^R) to determine the additive effect multiple pesticide applications have on hazardous residue degradation. The rate for both applications was one pound of active ingredient (AI)/100 gallons of water/acre. Mean levels of dislodgeable foliar azinphosmethyl residue came close to, but did not exceed, a calculated safe level of 1.60 ug/cm² at any time following the first or second application. However, unaveraged residue levels after the second application did exceed the safe level for at least five days, but were again below this level before 12 days post-application. No highly toxic azinphosmethyl-oxon degradation product was found at any time during the study. Renewing the 14 day reentry interval after serial azinphosmethyl applications has been demonstrated to provide adequate fieldworker protection at low application rates.

INTRODUCTION

Azinphosmethyl (0,0-Dimethyl-S-[(4-oxo-1,2,3-benzo-triazin-3(4H)-yl)methyl] phosphorodithioate; Guthion^R) is an insecticide of high acute toxicity with a wide variety of agricultural and horticultural uses in California. It provides effective pest control through its non-systemic, contact activity. Its oral LD₅₀ (rat) is most often reported to be between 11-17 mg/kg and its dermal LD₅₀ is reported to be 220 mg/kg (1). Azinphosmethyl-oxon, the oxygen analogue degradation product of azinphosmethyl, may be as much as 30 times as toxic as the parent compound (2). Azinphosmethyl is a Toxicity Category I pesticide (based on oral LD₅₀) whose greatest known hazard to humans is believed to be acute toxicity resulting from accidental inhalation, ingestion or dermal exposure.

Agricultural field workers are protected in California from pesticide-related illness caused by dermal exposure to hazardous residues, by restricting entry into treated fields until residues remaining have reached a level calculated to be safe. This exclusion period is termed a "reentry interval". Organophosphate pesticide residues, and their corresponding oxidation products, have caused field worker illnesses in the past by reducing cholinesterase enzyme activity after significant exposure has occurred.

The severity of a residue-caused field worker illness is dependent upon the quantity and toxicity of the residues present at the time of exposure and upon the extent of contact with dislodgeable foliar residue and contaminated particles from the soil (3, 4). To eliminate this hazard, safe reentry intervals were established by the California Department of Food and Agriculture (CDFA) in 1971, that were both application rate and commodity dependent (5). Reentry intervals for additional pesticides have been added since that time. For azinphosmethyl, as used on peaches at the rate described in this report, the current reentry interval required in California would be 14 days. This interval is required after each azinphosmethyl application.

Serial applications of azinphosmethyl to peaches in Stanislaus County occur primarily in the spring and early summer for the control of the Oriental Fruit Moth, the Peach Twig Borer, and various aphids, thrips, and scale insects. The formulation used at present is a 50 percent wettable powder which is tank-mixed in water and is normally applied by ground application equipment. The tank mix may or may not include adjuvants or other pesticides. Serial applications of azinphosmethyl are normal in this area with up to three applications occurring between mid-May and late July.

This field study was undertaken in the spring and summer of 1985 by the Northern Field Study Team of the Worker Health and Safety (WH&S) Branch to provide data to be used in evaluating the additive effect of multiple pesticide applications and the adequacy of current reentry restrictions.

METHODS

Two orchards on the ranch of a grower near Modesto, in Stanislaus County, were selected for this study prior to the first azinphosmethyl applications of the season. On May 29th, both orchards were sprayed with Mobay Guthion^R

50% Wettable Powder (EPA Reg. No. 3125-301 AA) mixed at two pounds of formulated product per 100 gallons of water per acre, or one pound of active ingredient (AI) per acre. The second applications occurred on July 3rd and July 6th and were of the same material at the same rate. All applications were made with the same tractor-pulled orchard-fan type sprayer.

Foliar residue samples were collected using methods similar to Gunther, et al., (6) and Iwata, et al., (3). Three sampling plots (two separate blocks in one orchard, one in the other) were marked prior to the first applications when pre-application samples were obtained. Each plot consisted of two sampling areas, each area composed of two rows. Leaf disc samples were collected from the sides of the sixth through the eleventh tree in each of the two rows in each sampling area for a total of 48 leaf discs (2.54 cm) per sample. Three replicate samples were collected from each sampling plot at each sampling interval. All samples were taken at a height of approximatley two meters and were collected in clean glass jars which were subsequently sealed with aluminum foil-lined lids. Samples were kept on ice and delivered for analysis as quickly as possible after collection.

The determination of dislodgeable foliar azinphosmethyl and azinphosmethyl-oxon levels was accomplished by CDFA Chemistry Laboratory Services in Sacramento. Residues were extracted from the leaf disc surfaces in a water/surfactant (2% Surten) solution. Accumulated water was then extracted with dichloromethane and evaporated. Known volume solutions were made with ethyl acetate and analyzed by gas/liquid chromatography. Detailed explanations of methods and equipment conditions have been given in several previous Health and Safety reports.

RESULTS AND CONCLUSION

Mean and maximum levels of dislodgeable foliar azinphosmethyl residue for all plots and replications are accompanied by standard deviations from the mean and are reported in Table 1. Figure 1 illustrates approximate straight-line degradation profiles on a log scale for each application. The values from the first applications are from three plots with three replications each. The values from the second applications are from two plots with three replications each. Since the second applications that were monitored for this study occurred on different days, a statistical comparison with daily temperature and air quality records is not possible.

No azinphosmethyl-oxon was found during the study even though 52 of 64 days (81%), for which weather data was available from the National Weather Service, had maximum temperatures of 90°F or above (Table 2). Oxidant data from the California Air Resources Board, Aerometric Data Division is presented in Attachment 1.

Residue seemed to degrade more slowly after the second application than after the first. Mean azinphosmethyl residue levels were reduced by 18 percent at five days after the first applications. Mean residue was reduced by only seven percent in five days after the second application. The second application for both plots occurred less than 37 days after the first.

Under the conditions encountered in this study, mean levels of azinphosmethyl residue came close to, but did not exceed, a calculated safe

level of foliar residue published by Knaak, et al., as 1.6 ug/cm² (7). However, unaveraged levels after the second application did exceed the safe level for at least five days, but were again below this level before 12 days post-application. Renewing the 14 day reentry interval for azinphosmethyl on peaches after a serial application, has been demonstrated to provide an adequate safety margin for fieldworker protection at low application rates. Residue levels and degradation behavior after a third serial application should be investigated.

TABLE 1
Overall Mean and Maximum Levels of Foliar Azinphosmethyl Residue in $\mu\text{g}/\text{cm}^2$
Including Standard Deviation from the Mean

	<u>1st Application*</u>										<u>2nd Application*</u>										
	Presample	6 Hours	24 Hours	48 Hours	5 Days	8 Days	15 Days	22 Days	29 Days	Presample	6 Hours	24 Hours	48 Hours	72 Hours	5 Days	12 Days	15 Days	20 Days	23 Days	27 Days	30 Days
Maximum Mean	0	1.42	1.41	1.42	1.19	.96	.86	.48	.47	0	1.79	1.32	1.63	1.62	1.62	1.37	.95	.69	.37	.65	.35
Standard Deviation	-	.13	.10	.09	.09	.08	.15	.10	.09	.30	.07	.09	.07	.21	.11	.20	.06	.05	.05	.03	.03
Overall Mean	0	1.31	1.31	1.31	1.08	.90	.73	.40	.40	0	1.58	1.27	1.57	1.57	1.48	1.37	.95	.69	.37	.65	.35

*Application rates were 2 pounds of formulated product/100 gallons H₂O/acre or 1 pound AI/Acre
Minimum Detectable Level for Azinphosmethyl = 5 $\mu\text{g}/\text{cm}^2$, for Azinphosmethyl-oxon = 20 $\mu\text{g}/\text{cm}^2$

TABLE 2
Weather Data for Modesto During the Study

PERIOD									
DATE	TEMPERATURE			PERCIPITATION	DATE	TEMPERATURE			PERCIPITATION
	MAX	MIN	MEAN			MAX	MIN	MEAN	
May 29 30 31 MEAN	75	49	62	None	July 11 12 13 14 15	91	68	80	None
	83	52	68	None		96	60	78	None
	70	53	62	None		102	57	80	None
	76	51				104	63	84	None
June 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 Mean	76	47	62	None	August 1 2 3 4 5 6 7 8 9 10 11 12	99	59	79	None
	69	51	60	.17"		99	64	82	None
	86	51	69	None		95	59	77	None
	86	46	66	None		94	60	77	None
	92	61	77	None		95	59	77	None
	94	60	77	None		87	63	75	None
	92	63	78	None		92	57	75	None
	94	63	79	None		96	62	79	None
	99	64	82	None		100	62	81	None
	100	65	83	None		103	68	86	None
	104	68	86	None		95	69	82	None
	101	67	84	None		96	68	82	None
	100	64	82	None		99	64	82	None
	101	67	84	None		93	59	76	None
	102	67	85	None		82	56	69	None
	105	70	88	None		85	56	71	None
	98	67	83	None		83	55	69	None
	98	60	79	None		96	63		
	90	60	75	None	August 1 2 3 4 5 6 7 8 9 10 11 12	86	55	71	None
	96	57	77	None		92	59	76	None
	95	60	78	None		101	60	81	None
	90	58	74	None		100	62	81	None
	93	56	75	None		91	60	76	None
	89	57	73	None		97	57	77	None
	92	56	74	None		94	60	77	None
	101	57	79	None		90	54	72	None
	107	63	85	None		96	60	78	None
	97	66	82	None		96	59	78	None
	93	61	77	None		92	54	73	None
	96	57	77	None		89	58	74	None
Mean		95	60			94	58		
July 1 2 3 4 5 6 7 8 9 10	103	64	84	None					
	101	70	86	None					
	101	65	83	None					
	101	65	83	None					
	103	63	83	None					
	98	66	84	None					
	97	67	82	None					
	102	66	84	None					
	104	70	87	None					
	93	71	82	None					

FIGURE 1: DEGRADATION PROFILE OF SERIAL APPLICATIONS OF AZINPHOSMETHYL (GATHION) TO PEACH FOLIAGE

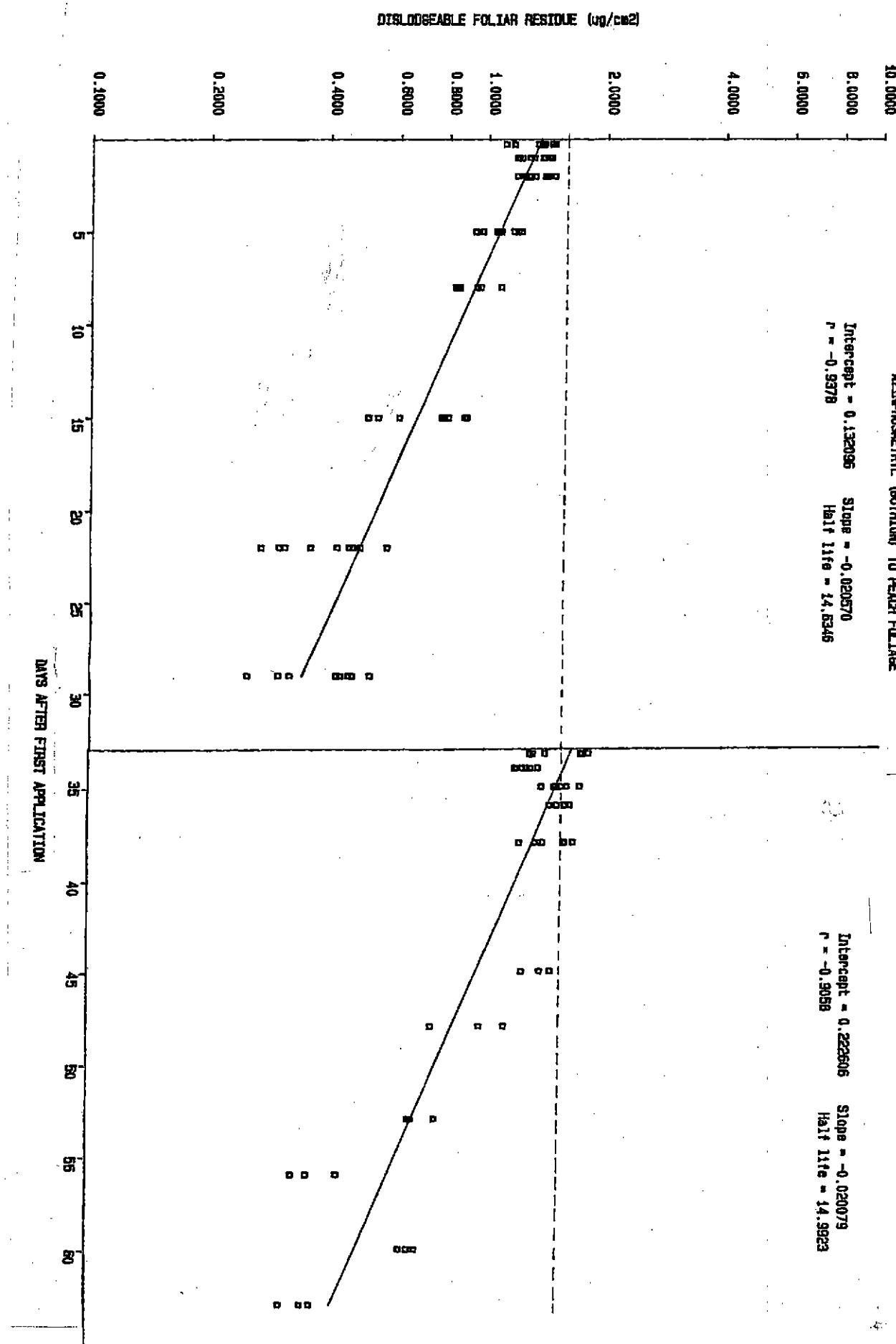


Figure 1 - Approximate straight line degradation profiles for first and second serial azinphosmethyl applications based on mean residue levels. Profile for second applications assumes that both applications occurred on the 33rd day after the date of first application.

REFERENCES

1. Hayes, W. J., Pesticides Studied in Man. Williams and Wilkins, Baltimore, Maryland (1982).
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4. Spencer, W. F., Y. Iwata, W. W. Kilgore, and J. B. Knaak: Worker Reentry into Pesticide Treated Crops. II. Procedures for the Determination of Pesticide Residues on the Soil Surface. Bull. Environ. Contam. Toxicol. 18:656 (1977).
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6. Gunther, F. A., W. E. Westlake, J. H. Barkley, W. Winterlin, and L. Langbehn: Establishing Dislodgeable Pesticide Residues on Leaf Surfaces. Bull. Environ. Contam. Toxicol. 9:243 (1973).
7. Knaak, J. B., P. Schlocker, C. R. Ackerman, and J. N. Seiber: Reentry Research: Establishment of Safe Pesticide Levels on Foliage. Bull. Environ. Contam. Toxicol. 24:796 (1980).

CALIFORNIA AIR RESOURCES BOARD
HASIC TAB REPORT

POLLUTANT : 42401 : SULFUR MONOXIDE
COLLECTION METHOD : 20 : INSTRUMENTAL
ANALYSIS METHOD : 43 : FLUORESCENCE
P.LTS

NO NOV 01 12 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27X	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Max	0	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	
Min	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

AIR BASIN : 09 : SAN JOAQUIN VALLEY
STATION : 5005568 : MONTTU-AIA 14TH ST
AGENCY : A : AREA ATMOSPHERIC SURV
PROJECT : 11 : POPULATION DENSITY
MAY : 1985 :

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
CONC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PPHM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

RUN DATE 10/10/96

CALIFORNIA AIR RESOURCES BOARD
BASIC DAY REPORT

POLLUTANT : 92401 : SULFUR DIOXIDE
COLLECTION METHOD : 25 : INSTRUMENTAL
ANALYSIS METHOD : 40 : PULSED FLUORESCENCE
UNITS : ppm

HOUR (PST)

AIR RASIN : 09 : SAN JOAQUIN VALLEY
STATION : 500668 : MONTEREY 14 16TH ST
AGENCY : A : AIR-ATMOSPHERIC SURV
PRODUCT : 11 : POPULATION CENTERED
DATE : 1985

	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Avg	MAXIMUM CONCENTRATION	N
1*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
24*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
25*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
26*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
27*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
28*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
30*	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Avg	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
%	27	30	30	30	30	29	29	28	25	23	30	30	29	29	30	30	30	29	29	30	30	30	30	30	30	30	
DAY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

RUN DATE 10/10/86

CALIFORNIA AIR RESOURCES BOARD
BASIC TAB REPORT

POLLUTANT : 42401 : SULFUR DIOXIDE
COLLECTION METHOD : 20 : INSTRUMENTAL
CATALYSIS METHOD : 40 : PULSED FLUORESCENCE
DATE : 10/10/85

AIR BASIN : 09 : SAN JOAQUIN VALLEY
STATION : 5000568 : MODESTO-914 14TH ST
AGENCY : A : ARH-ATMOSPHERIC SURV
PROJECT : 11 : POPULATION ORIENTED
JULY : 1985

HOUR (PST)

Day	CC	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17	C18	C19	C20	C21	C22	C23	AVE CONC	MAXIMUM CONC HQ #	
1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2*	20	1* 06 N
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	1* 04 N
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	21	0* 00 N
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	21	0* 00 N
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	22	0* 00 N
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0*	23	0* 00 N
Ave	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	
Max	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.2*	1	RUN DATE 10/10/86

CALIFORNIA AIR RESOURCES BOARD
BASIC TAB REPORT

40	EPMH	40	EPMLD	40
20	EPMLASIS MTHC	20	EPMLD EUDGESCEN	20
20	EPMLD EUDGESCEN	20	EPMLD EUDGESCEN	20
40	EPMLD EUDGESCEN	40	EPMLD EUDGESCEN	40
40	EPMLD EUDGESCEN	40	EPMLD EUDGESCEN	40

AIR RACIN : 09 : SAY JOAQUIN VALLEY
 STATION : 500056A : MONEST-916 14TH ST
 AGENCY : A : APP-AUTOSPHERIC SURV
 PROJECT : 11 : POPULATION ORIENTED
 AUGUST : 1985 :

HOUR (PST)

MAXIMUM
SOLVENT CONC.
AVE. CONC.

RUN DATE : 10/10/96

CALIFORNIA AIR RESOURCES BOARD
BASIC TAB REPORT

POLLUTANT : 42603 : OXIDES OF NITROGEN
COLLECTION METHOD : 14 : INSTRUMENTAL
ANALYSIS METHOD : 40 : CHIMIOLUMINESCENT
UNITS : ppm

HOUR (PST)

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	CONC	N	MAXIMUM	CONC	HP #					
1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
4X	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
5X	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
6	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
7	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
8	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
9	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
10	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
11	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
12X	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
13	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
14	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
15	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
16	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
17	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
18X	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
19	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
20	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
21	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
22	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
23	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
24X	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
26X	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
27X	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
28	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
29	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
30	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
31	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
LVE	2.0	1.9	2.0	3.3	3.8	3.1	2.5	2.5	2.0	2.1	2.0	2.3	2.0	1.9	2.0	2.4	2.0	2.1	2.0	2.4	2.0	2.2	1.9	2.0	2.3	2.0	2.4	2.0	2.5	2.0				
RATE	N	28	26	28	28	29	25	26	29	29	29	29	29	29	29	29	27	27	26	28	28	28	29	29	29	29	29	29	29	29	29			
RATE	N	4	4	9	6	14	10	7	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
RUN DATE																																		

CALIFORNIA AIR RESOURCES BOARD
HASIC TAB REPORT

POLLUTANT	42601	OXIDES OF NITROGEN
COLLECTOR METHO	14	INSTRUMENTAL
CATALYSIS OF CHCO		CHEMILUMINESCENT
UNITS	40	FIRN

AIR BASIN : 09 : SAN JOAQUIN VALLEY
 STATION : 5000569 : MORENOVILLE, 14TH ST
 AGENCY : A : AEROMETEOROLOGIC SHEW
 PROJECT : 11 : POPULATION SURVEYED
 : :
 : : 1965

CALIFORNIA AIR RESOURCES BOARD
PASIC YAR REPORT

POLLUTANT : 42603 : OXIDES OF NITROGEN
COLLECTION METHOD : 14 : INSTRUMENTAL
ANALYTIC METHOD : 40 : CHEMILUMINESCENT
UNITS : ppm

AIR BASIN : 09 : SAN JOAQUIN VALLEY
STATION : 5000568 : MODESTO-814 14TH ST
AGENCY : A : ARB-ATMOSPHERIC SURV
PROJECT : 11 : POPULATION ORIENTED
JULY : 1985 :

HOUR (PST)

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	AVE	CONC	N	MAXIMUM CONC HPM	
1	3	2	2	3	3	8	7	5	9	3	5	3	2	2	3	2	2	3	2	3	3	3	3	10.7*	20	A+ DK			
2	3	2	2	2	2	3	4	3	3	3	3	3	3	3	3	3	3	4	4	4	3	2.9*	17	5* 07					
3	3	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	3	3	3	3	3.2*	17	4* 20 H			
4X	3	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2.7	23	4* 21 H		
5	3	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2.7	21	4* 11		
6X	3	2	2	3	3	3	3	4	4	3	3	3	3	3	3	3	3	2	2	2	2	2	2	2	2.7	23	4* 26 H		
7Y	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.7	23	4* 06 H		
8	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.7	23	4* 11		
9	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.7	23	4* 11		
10	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.7	23	4* 11		
11	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.7	23	4* 06 H		
12	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.7*	20	4* 06 H		
13X	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.7	23	4* 02 H		
14X	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.7	23	4* 02 H		
15	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.7	23	4* 06 H		
16	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.7	23	4* 07 H		
17	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.7*	20	4* 07 H		
18	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.7	23	4* 04 H		
19	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.7	23	4* 05 X		
20X	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.7	23	4* 10 H		
21X	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.7	23	4* 01 H		
22	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.7	23	4* 01 H		
23	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.7	23	4* 05 H		
24	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.7	23	4* 07 H		
25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.7	23	4* 07 H		
26	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.7	23	4* 08 H		
27X	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.7	23	4* 08 H		
28X	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.7	23	4* 09 H		
29	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.7	23	4* 01 H		
30	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.7	23	4* 06 H		
31	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2.7	23	4* 07 H		
AVE	2.7	2.5	3.0	3.3	3.7	3.5	3.4	3.5	3.2	3.3	2.8	2.7	2.6	2.4	2.3	3.1	3.1	2.9	2.8	2.8	2.8	2.8	2.8	2.9	2.6	2.9	4.5		
MIN	30	30	30	30	30	30	29	26	29	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	
MAX	4	5	6	7	8	9	7	5	5	5	5	5	5	5	5	4	4	5	5	4	4	4	4	4	4	4	4	4	4

CALIFORNIA AIR RESOURCES BOARD
BASIC TAIR REPORT

POLLUTANT	42603	OXIDES OF NITROGEN
COLLECTION METHOD	14	INSTRUMENTAL
ANALYSIS METHOD		CHEMILUMINESCENT
UNITS	40	PPM

AIR BASIN	: 09	: SAN JOAQUIN VALLEY
STATION	: 5000568	: MONESTO-E14 14TH ST
AGENCY	: A	: ATMOSPHERIC SURV
PROJECT	: 11	: POPULATION ORIENTED
		: 1995
AUGUST		

HOMOGENEITY

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CALIFORNIA AIR RESOURCES BOARD
HABITAT TRACK REPORT

POLLUTANT : OZONE
COLLECTION METHOD : UV PHOTOMETRIC
POLLUTANT : POLYLYSIS WITHC
COLLECTION METHOD : PHS

AIR BASIN	: 09	SAN JOAQUIN VALLEY
STATION	: 5000568	MOFFSTO-A14 1ATH ST
AGENCY	: A	ATMOSPHERIC SURV
PROJECT	: 11	POPULATION ORIENTED
PERIOD	: JUNE	
PERIOD	: 1985	

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CALIFORNIA AIR RESOURCES BOARD
HANFORD, REPORT

POLLUTANT : 44231 : NO₂
COLLECTION METHOD : 14 : INSTRUMENTAL
ANALYSIS METHOD : 1 : UV PHOTOMETRIC
UNITS : ACF : PPMM

HOUR (PST)

DAY	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Avg	MAXIMUM CONC HR #		
1	2	3	4	3	2	2	2	3	4	5	6	7	8	9	4	5	6	7	5	4	2	3	2	1	2	3.5.	18	
2	2	2	3	2	2	2	2	3	4	5	6	7	8	9	4	5	6	5	5	4	2	2	1	2	3.	14	2.	
3	1	1	2	1	1	2	1	1	2	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	17	
4	1	1	2	1	1	2	1	1	2	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.2.	23	
5	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.8.	21
6	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.6.	23
7	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	21
8	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	21
9	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	21
10	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	21
11	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	21
12	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	21
13	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	21
14	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	21
15	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	21
16	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	21
17	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	21
18	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	21
19	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	21
20	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	21
21	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	21
22	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	21
23	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	21
24	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	21
25	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	21
26	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	21
27	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	21
28	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	21
29	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	21
30	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	21
31	1	1	2	1	1	2	1	1	2	1	1	2	3	4	5	6	5	5	6	7	6	5	4	2	1	2	3.5.	21
Avg	1.5	1.4	1.5	1.2	1.02	1.05	1.05	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03
1	30	30	30	30	30	30	30	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	
MAY	4	3	4	3	3	2	3	3	2	3	3	2	3	3	2	3	3	2	3	3	2	3	3	2	3	3	2	3

**CALIFORNIA AIR RESOURCES BOARD
PASIC TAP REPORT**

44201 : OZONE
INSTRUMENTAL
UV ENTHIETRIC
FPM4

AIR BASIN : 09 : SAN JOAQUIN VALLEY
 STATION : 5000568 : WORST-014 14TH ST
 AGENCY : 4 : APD-ATMOSPHERIC SURV
 PROJECT : 11 : POPULATION ORIENTED
 AUGUST : 1985 :

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HOUR (PST)

527/10/11